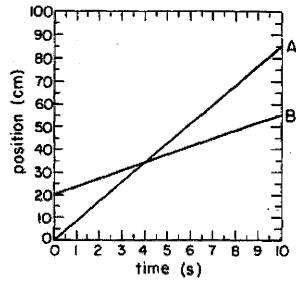


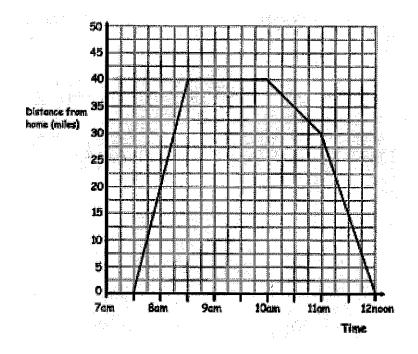
7. If a 20kg puppy is running at 2.5 m/s2, then it will hit the sprinkler with

8. If a 20 kg baby is pulling on a toy at .2 m/s2, how much force is on the toy?

9. Newton's 3 rd Law of Motion states that for every African there is a opposite Y (ACTO). It is equal in the formula of the opposite in direction of the opposite in the opposite in direction of the opposite in directi	an <u>Equal</u> and
10. Do forces work alone or in pairs? in pairs	•
11. List 3 forces we have on Earth that keep objects from moving at a constant spe	eed in a straight line.
air resistance, grainy	<u> </u>
12. Which object will have more inertia, a student or a car?	Why?
Acausi a car has more mass.	 .
Use the graph below for the following questions:	
100	



- 1. Which object shows acceleration?
- 2. What was the average speed of A? 8.5 am/s
- 3. What was the average speed of B? 5.5 cm/s
- 4. Did A and B start at the same location? 100
- 5. If this was a race, who cheated in the very beginning?
- 6. At what time did A pass B? About 4 Scc.



- 1. What time did Tom leave home? 7:30 am
- 2. How far did Tom travel from home before stopping? 40 MJ/JJ
- 3. How long did Tom stop? 1/2 hrs
- 4. What was the total distance traveled by Tom?
- 5. What was Tom's speed at 8:30 am? $\frac{40}{1} = \frac{40}{1} \text{hr}$

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2. To calculate work, you use the for 3. If you use 100 N of force to lift a 4. If you push a wagon with 200 N of 5. If you hold a 20N baby 1 meter of 6. A Machine is a device th 7. Machine Adv is the formula for MA is Office 1. The formula for ME is 10. The comparison of a machine's 11. The formula for ME is World World	box 2 meters off the ground of force for 6 meters, how not for the ground for 10 minutes at makes work easier by change a mach a ramp with 50 N of force, work output with work inpution.	d, how much work douch work did you do utes, how much work anging the size or do ine multiplies your factor what is the MA of that is the MA of the tis the MA control who is the MA of the tis the MA of the MA control who is the MA of the MA control who is the MA of the MA control who is the MA control who i	id you do? <u>JDD</u> J o? <u>1,200</u> J k did you do? <u>O</u> J irection of a force. Force. The ramp? <u>ID</u> CALLY
12. If I put 100J of work into a mach	nine and it puts out 50J of v	vork, what is the ME	of the machine? <u>250</u> /
13. If I put 50 J of work into a screw 14. An <u>Falal</u> machine we	ould have a 100% Mechani	i work on the screw cal Efficiency.	, what is the ME? $= 60\%$
Levers:		Class One Lever	rce Load o
 What is the MA of a 1st Class level. What is the MA of a 2nd Class level. What is the MA of a 3rd Class level. Which lever multiplies distance? Which lever ALWAYS multiplies. Which lever can have an MA of 1 	er? / / / / / / / / / / / / / / / / / / /	Class Two Lever	Load
Pulleys:	1. Which pulley is f 2. Which pulley is r 3. What is the MA o 4. What is the MA o 5. What type of pull	noveable? // // // // // // // // // // // // //	What is the MA? What is the MA? What is the MA? What is the MA?
Wheel and Axle: 1. What is the MA if the wheel has a 2. What is the MA if the wheel has a Inclined Planes: These include the	a radius of 10cm and the ax		$m? \underline{\overline{Z}}$
μ=0.15 h=5	2		2 ⁿ
$MA = \underline{\qquad \qquad } L$	MA = 31	MA	<u> </u>